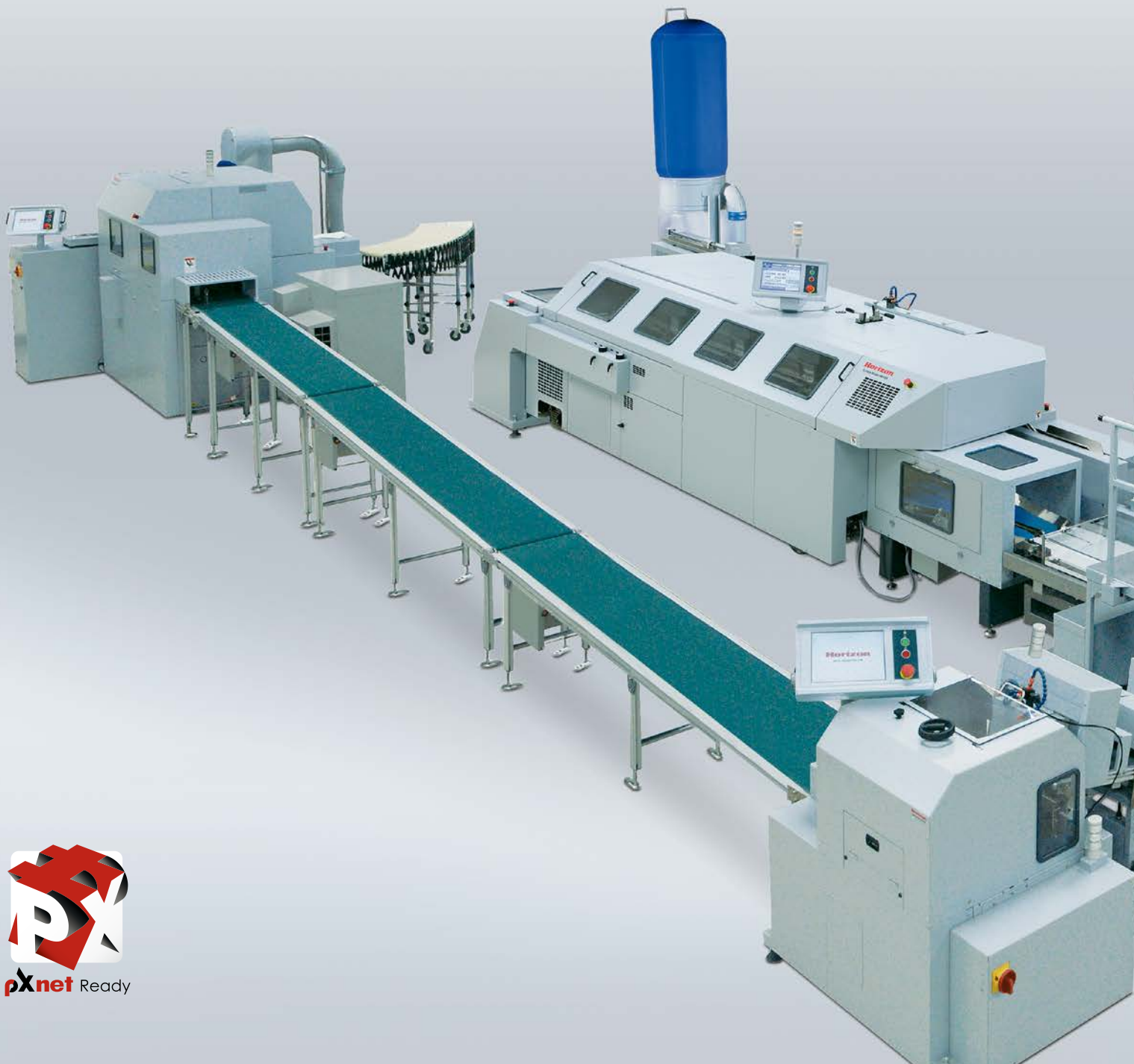
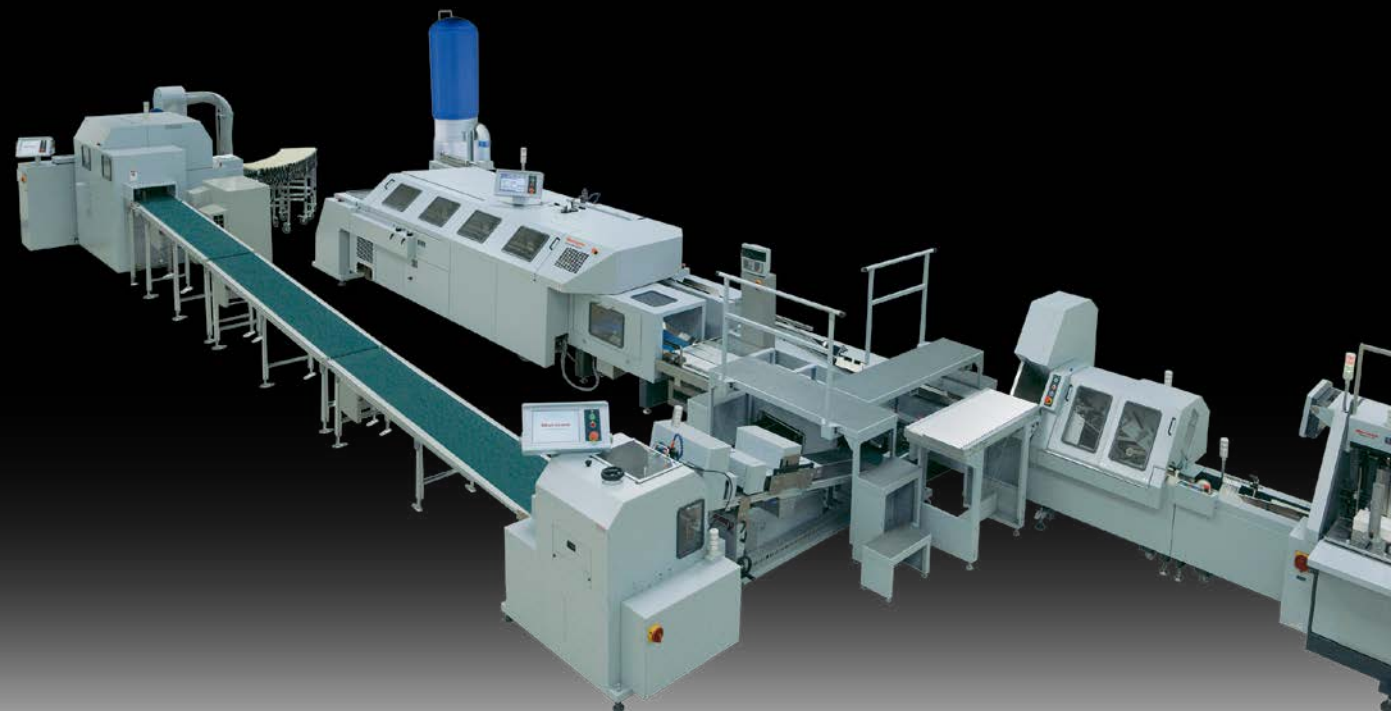


**Horizon**

# CABS4000S



The space-efficient CABS4000S binder combines high-performance automation, simplicity of operation, superior productivity, and absolute quality control for short, medium and longer run lengths.



## CABS4000S Features

1. High productivity at 4,000 books/hour with in-line system from gathering to trimming.
2. Color touch screens provide easy, intuitive operation for fast, accurate changeovers and quick adjustments for production flexibility.
3. Equipped with interchangeable tank unit that allows binding with both EVA and PUR hotmelt.
4. Various book sizes can be bound in-line, from minimum size A6 to maximum size A4.
5. Off-line signature gathering is possible using the ST-600 stacker. Also, by installing the RU-600 mis-feed unit the gatherer can operate non-stop.
6. Quality control image checking cameras, thickness detector, weight checker and other optional quality control features.
7. The Horizon bindery management system (pXnet) can also be added, for further to increase in efficiency and effectiveness of the binding process. The pXnet is ready to receive JDF data.

# MG-600

## System Gatherer



1. Combine up to 6 gathering units for a total of 36 stations.
2. Intuitive operation via intelligent touch screen control.
3. Image checking cameras (option IC-MG600) detect sheets that have been improperly positioned or misprinted.
4. Used stations and settings of the detecting sensor can be memorized.
5. The ST-600 on/off-line stacker allows gathering to be performed off-line from the binder.

### Option

#### Book block thickness detector (TD-600)

For enhanced quality control, the book block thickness is measured so that only good books proceed to the next steps. Set-up is done through the intuitive touch screen.



#### Operation section

Large color touch screens are used on each unit for efficient operation. Settings on a gatherer can be memorized in job memory.



#### Feeding section

Stable paper feeding is provided. Each feed station is equipped with a status indicator lamp.



### Option

#### Image checker (IC-MG600)

Image checking camera checks the image on each feed cycle to prevent incorrect signature or sheet feeding, for absolute document integrity. The captured image is shown on each display for visual confirmation.



### Option

#### Book block rejecting unit (RU-600)

RU-600 rejects any incorrectly collated signatures so the whole system can run non-stop, for maximum productivity.

### Option

#### On/Off-line stacker (ST-600)

The MG-600 can run as a stand alone gatherer when the ST-600 stacker is installed.



### Option

#### Hand feed unit for MG-600H (HF-600)

HF-600 allows an operator to feed additional signatures or sheets. The MG-600 starts collating when the signature is hand fed, so that both signatures combine smoothly.



# SB-09S

## System Binder



1. Highly accurate automated set-up is performed with simple and easy operation.
2. Book production of up to 4,000 books/hour can be achieved.
3. Both EVA hotmelt and PUR hotmelt are supported by using the interchangeable melt tanks.
4. Two application rollers ensure superior penetration of hotmelt glue.

### Cover feeding section

Press roller style cover feeding grips the cover firmly for stable cover feeding. Any double-feeds are detected by a super-sonic sensor. Covers can be loaded while running.



### Cover feeding / Scoring section

The cover scoring wheels can create up to 4 score lines, and can be automatically set up according to the book thickness.



### Nipping section

A superior nipping system exerts powerful nipping pressure to create strong, durable binds with sharp spine corners. Nipper height and width can be adjusted during operation.



### Delivery section



Book blocks are delivered smoothly from the clamber to the delivery section thanks to the space efficient vertical conveyor. Support guides automatically set according to book thickness. A gentle lay down conveyor insures a high quality bind with accurate spine corners. If a registration error is detected, the book is automatically rejected to the optional reject conveyor.



### Option

#### Book/Cover sheet size input interface (SI-17)

All necessary setups can be automatically performed by reading the length of the actual book block and cover, instead of having to manually input the size data into the operation panel.



### Melt tank section

Two application rollers promote superior penetration of hotmelt glue into the book for stronger binds. Spine and side glue adjustment is done through the touch screen.



### Milling section

The notching pitch can be also adjusted through the touch screen.



### Book block feed section

Clamp opening width according to the book thickness can be adjusted on all clamps using a lever in a range of about 1 cm (0.39"). (Adjustment range depends on position of the lever.) Sufficient work space and safety covers are provided.

### Operation console

Large color touch screen provides simple and easy operation. All necessary set-ups can be performed through the touch screen.



### In-feed section

Gathered signatures are checked by a height detecting sensor installed on the docking conveyor unit DC-600, and inserted into the clamber while being jogged.



### Melt tank unit for EVA glue

#### Melt tank unit for PUR glue (Open drum)

Interchangeable melt tanks allow both EVA hotmelt and PUR hotmelt to be used.



### Option

#### Pre-melt tank

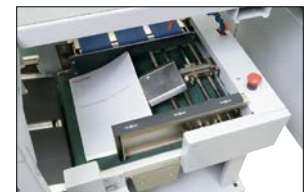
Glue is pre-melted in a separate, high-capacity tank and fed into the glue tank as needed. Pre-melt tanks for EVA hotmelt (PM-20II) and for PUR hotmelt are available.

### Connected delivery section

### Option

#### Stack stream unit (SS-110)

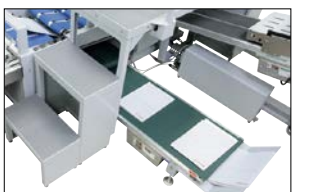
Bound books are transported into the stack stream orientator (SS-110) to accumulate a predetermined number of books (up to 100 mm) for trimming in HT-110. SS-110 is set up automatically according to the setting data from HT-110. Fine adjustment is performed through a large touch screen. The speed of the conveyor to HT-110 is also adjusted automatically.



### Option

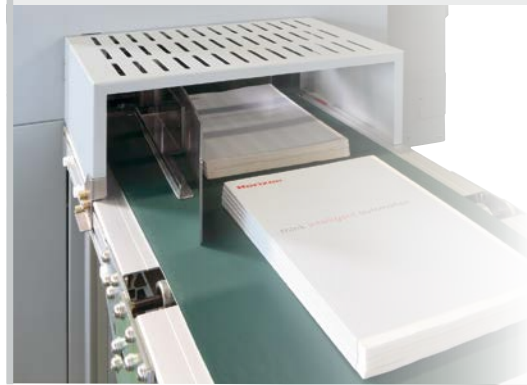
#### Weight checking unit (WD-17)/Book rejecting unit (RU-17)

The weight checking system detects any books that are missing a cover or signature, and delivers the errored books into a reject tray.



# HT-110

## Three-knife Trimmer



1. Highly accurate set-ups are performed with easy and simple operation.
2. Trimming cycle can be adjusted in 13 stages from 400 to 1,600 cycles/hour. By accumulating 3 books at once at the stream stack orientator, productivity of 4,000 books/hour can be achieved.
3. Rigid framing and durable structure provides the utmost in trimming accuracy.

### Operation console

The trimmer is simple and easy to operate, with all necessary settings performed through the large, icon-based color touch screen. If the system has an error, the error type and location are indicated for quick resolution.



### Option

#### Chip extractor (TB-100)

The three-knife trimming waste is extracted by the chip extractor.



### In-Feed section

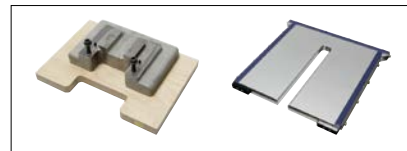
A pressing unit in the in-feed section compresses the books to remove air for reduced bulk and accurate trimming.



### Option

#### Plate for trimming for each size

Clamper plate and cutting table for each size are available as options.



### Chuck plate recognition device



LED lamps light up to indicate which chuck plate is suitable for each book size. Replacement of the chuck plate is fast and easy.



### Trimming section



The height of each knife and the angle of the fore-edge knife can be adjusted through the color touch screen during operation. Trimmings are blown away from the knife by strong air nozzles mounted on the knife holders.

## Advanced Features

### PUR

## Strong, Environmentally Friendly PUR Solution

Polyurethane Reactive, also called PUR, is a polyurethane adhesive attracting attention for binding strength and eco-friendliness.

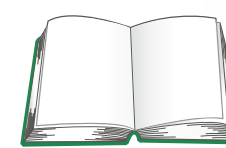
### Strong and Lay-Flat Binding

As the printing industry diversifies, there is growing demand for binding with color printed sheets. EVA hotmelt glue has difficulty binding coated stock firmly, and does not currently enable acceptable lay-flat binding. However, PUR hotmelt glue can provide adequate binding strength and lay-flat quality for both offset and digital prints.

PUR hotmelt glue provides the best page spread compared to traditional EVA hotmelt glue. High binding strength allows for the application of a small amount of glue, allowing the pages to lay flat when the book is opened.



EVA



PUR

### Durable against Temperature

PUR hotmelt glue retains durability and flexibility in both high and low temperatures. The temperature resistance for PUR hotmelt glue ranges from -20 to 120 degrees Celsius versus 0 to 60 degrees Celsius for EVA hotmelt glue. This allows PUR bound books to be handled in almost any climate or location.

### Ecology

PUR adhesive is environmentally friendly, allowing PUR-bound books to be recycled. PUR also has a lower melting point (120 degrees Celsius) than EVA for operational energy savings.

\*PUR hotmelt is reactive glue and takes time to become solidified. Contact your local dealer about required system components for binding with PUR hotmelt glue.

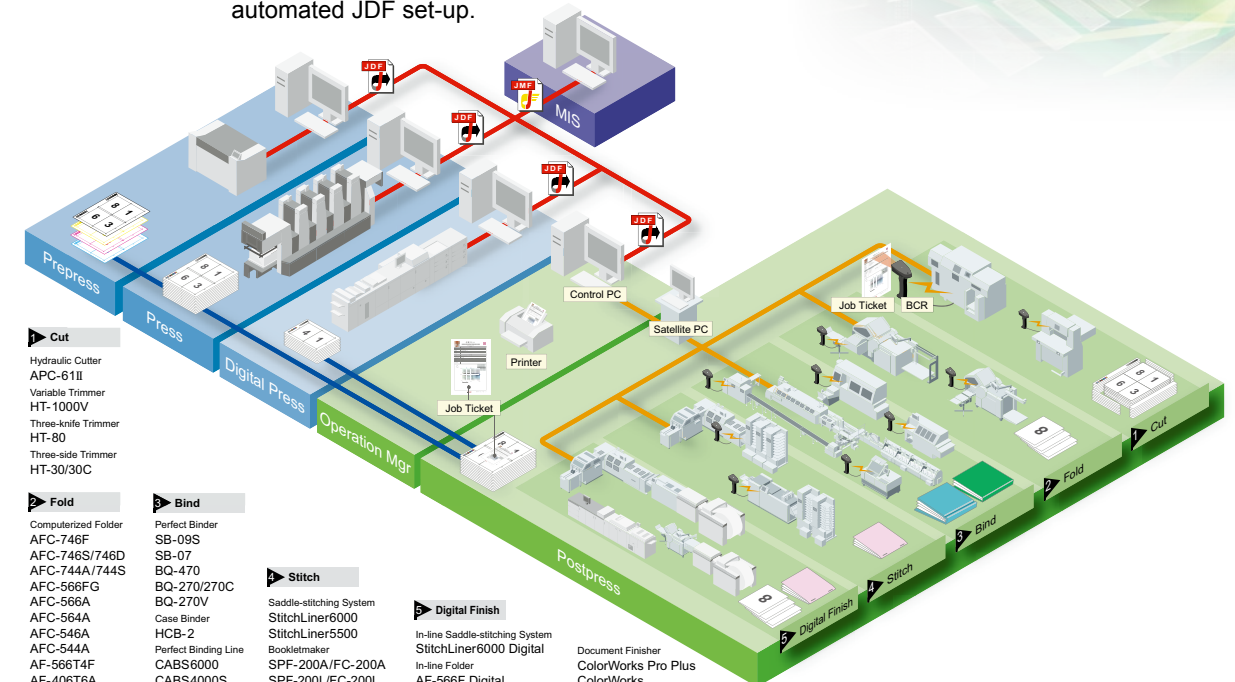
### pXnet System

## Manage your bindery with JDF enabled control system.



The Horizon pXnet Bindery Control System is used as a central control point to schedule work, send job data to each finisher, monitor status of finishers and collect production statistics from finishers in real-time. pXnet brings efficiency and value in high-mix/low-volume production environments where frequent job changeovers are needed.

The pXnet system can also be interfaced with an existing workflow for automated JDF set-up.



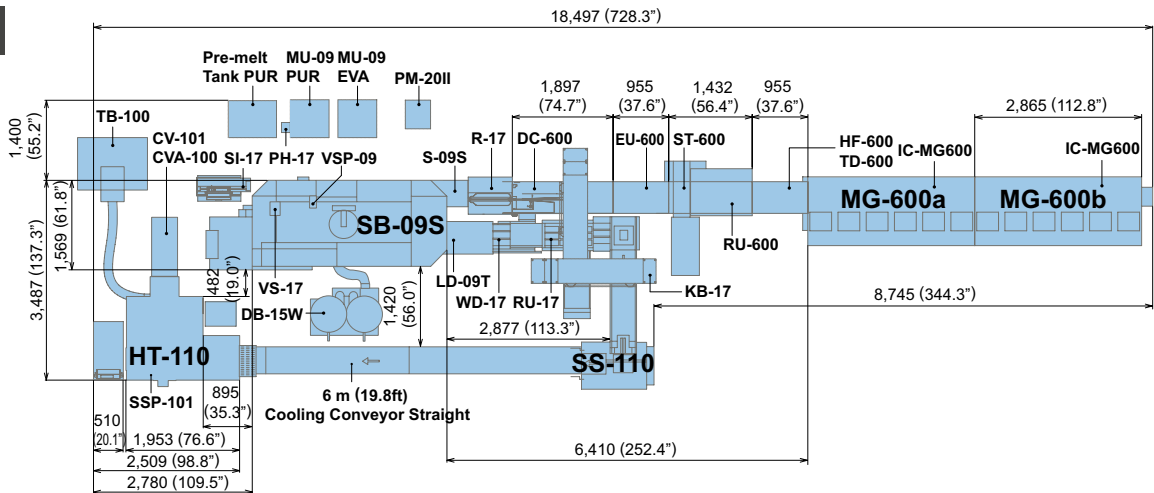




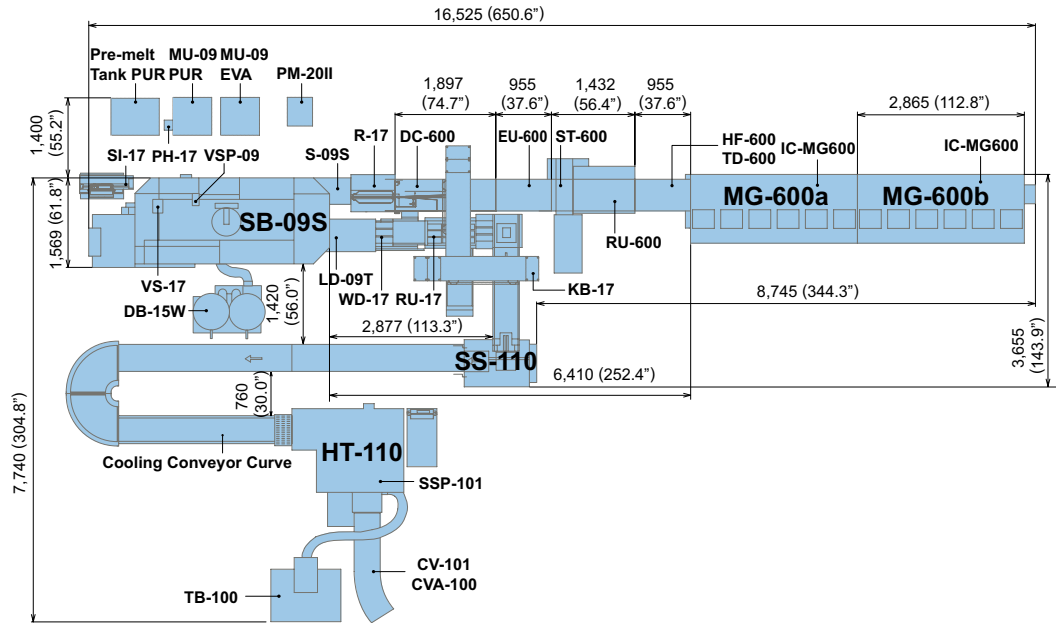
\*Contact your local dealer for more information.

Machine Dimensions and Configuration Examples [Unit : mm (inch)]

Example 1



Example 2



Specifications

| MG-600 Specifications    |                                                                                             |
|--------------------------|---------------------------------------------------------------------------------------------|
| Sheet Feeding System     | Air suction bottom feed                                                                     |
| Module Configuration     | MG-600a / MG-600b / MG-600b / MG-600c / MG-600b / MG-600b                                   |
| Number of Hopper         | 6 hoppers / 12 hoppers / 18 hoppers / 24 hoppers / 30 hoppers / 36 hoppers                  |
| Sheet Size               | Max. W385 x L275 mm / 15.15" x 10.82"<br>Min. W148 x L105 mm / 5.83" x 4.14"                |
| Bin Pile Height          | Normal paper signature: Max. 300 mm / 11.81"<br>Coated paper signature: Max. 150 mm / 5.90" |
| Max. Transport Thickness | Max. 50 mm / 1.96"                                                                          |
| Sheet Weight Range       | Normal signature sheet                                                                      |
| Production Speed         | Max. 6,000 sets per hour                                                                    |
| Power Consumption        | MG-600a: 50 / 60 Hz, 2.9 kW / MG-600b: 50 / 60 Hz, 1.8 kW<br>MG-600c: 60 Hz, 2.7 kW         |
| Machine Dimensions       | MG-600a:<br>W3,200 x D1,180 x H1,690 mm / 126.0" x 46.5" x 66.6"                            |
|                          | MG-600b/c:<br>W2,860 x D1,180 x H1,690 mm / 112.6" x 46.5" x 66.6"                          |

| SB-09S Specifications               |                                                                                                                                                                                                                        |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Max. Book Size                      | Automatic In-Feed Max. including from MG-600<br>Portrait: L330 x H250 mm / 12.99" x 9.84"<br>Direct Feed to clamper Max.<br>Portrait: L400 x H280 mm / 15.74" x 11.02"<br>Land Scene: L330 x H320 mm / 12.99" x 12.59" |
|                                     | Automatic In-Feed Min. including from MG-600<br>Portrait: L148 x H105 mm / 5.83" x 4.13" (A6)<br>Land Scene: L135 x H185 mm / 5.31" x 7.28" (B6)                                                                       |
|                                     | Direct Feed to clamper Min.<br>Portrait: L148 x H105 mm / 5.82" x 4.13" (A6)<br>Land Scene: L135 x H185 mm / 5.31" x 7.28" (B6)                                                                                        |
| Book Thickness                      | 1 to 45 mm / 0.04" to 1.77" Depends on condition                                                                                                                                                                       |
| Cover Size (Top-Bottom x Fore-edge) | Max. Top-bottom 400 x Fore-edge 660 mm / 15.74" x 25.98"                                                                                                                                                               |
| Cover Weight Range                  | Min. Top-bottom 135 x Fore-edge 220 mm / 5.31" x 8.66"                                                                                                                                                                 |
| Cover Pile Height                   | 82 to 302 gsm Normal Paper, 105 to 348 gsm Coated Paper                                                                                                                                                                |
| Production Speed                    | Max. 130 mm / 5.1"                                                                                                                                                                                                     |
| Machine Dimensions                  | Max. 4,000 books per hour                                                                                                                                                                                              |
|                                     | Stand alone (with U-09S, AC-08)<br>W4,520 x D2,425 x H1,660 mm / 177.9" x 95.4" x 65.5"<br>System (with U-09S)<br>W4,900 x D1,570 x 1,660 mm / 192.9" x 61.8" x 65.3"                                                  |

| HT-110 Specifications                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Untrimmed Book Size (Top-Bottom x Fore-edge) | Max. 410 x 320 mm / 16.14" x 12.59"<br>Min. 148 x 105 mm / 5.83" x 4.14"                                                                                                                                                                                                                                                                                                                                                                                           |
| Trimmed Book Size                            | Max. 366 x 300 mm / 14.40" x 11.81"<br>Min. 145 x 103 mm / 5.71" x 4.05"                                                                                                                                                                                                                                                                                                                                                                                           |
| Trimmings Width                              | Fore-edge: 45 mm / 1.77" (Maximum trim width for fore-edge is 23 mm / 0.90" when the finishing size is A4E-Landscape.)<br>Top-Bottom: 30 mm / 1.18"                                                                                                                                                                                                                                                                                                                |
| Trim Thickness                               | 2 to 100 mm / 0.079" to 3.93"                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                              | Limitations:<br>a. Max. 50 mm (1.96") for books which measure 145 mm (5.71") or shorter between spine and fore-edge<br>b. Limitation for books which have a finished length of 325 mm (12.80") or longer between top and bottom<br>For example:<br>Max. 55 mm (2.16") for books which measure 400 mm (15.74") between top and bottom before trimming<br>Max. 80 mm (3.14") for books which have a length of 364 mm (14.33") between top and bottom before trimming |
|                                              | 4 kN to 12 kN (Adjustable in 9 steps)                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Clamp and Pressure                           | 400 to 1,600 cycles (Adjustable in 13 steps)                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Production Speed                             | 200 V, 50 / 60 Hz, 3.9 kW Compressor not included                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Power Consumption                            | Main Body:<br>W1,950 x D2,150 x H1,910 mm / 76.8" x 84.7" x 75.2")<br>Power Box:<br>W510 x D1,000 x H1,450 mm / 20.1" x 39.4" x 57.1")                                                                                                                                                                                                                                                                                                                             |
| Machine Dimensions                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

\*The machine design and specifications are subject to change without any notice.



Portrait



Landscape

think intelligent automation.

\*The machine design and specifications are subject to change without any notice.

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